

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:
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PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing (day/month/year)

03 AUG 2004

Applicant's or agent's file reference

PU020116

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

IMPORTANT NOTIFICATION

PCT/US03/09862

01 April 2003 (01.04.2003)

16 April 2002 (16.04.2002)

Applicant

THOMSON LICENSING S.A.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Mail Stop PCT, Attn: IPEA/US
Commissioner for Patents
P.O. Box 1450

Alexandria, Virginia 22313-1450

Authorized officer

Stephen Chin

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Form PCT/IPEA/416 (July 1992)



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PU020116	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.	International filing date (day/month/year)		Priority date (day/month/year)					
PCT/US03/09862	01 April 2003 (01.04.2003)		16 April 2002 (16.04.2002)					
International Patent Classification (IPC)			10 1011 2002 (10.01.2002)					
IPC(7): HO4L 5/12 and US Cl.: 375/265								
Applicant								
THOMSON LICENSING S.A.								
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total of ## sheets, including this cover sheet.								
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a total of sheets.								
3. This report contains indicate	ations relating to the following	items:						
I Basis of the rep	I Basis of the report							
II Priority	•							
, —	ent of report with regard to novelty, inventive step and industrial applicability							
IV Lack of unity of								
=								
	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain docume	ents cited							
VII Certain defects	VII Certain defects in the international application							
VIII Certain observa	ations on the international appl	ication						
Date of submission of the demand	Dat	e of completion	of this report					
13 November 2003 (13.11.2003)		09 July 2004 (09.07.2004)						
Name and mailing address of the IPEA/US		norized officer	10					
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		Stephen Chin						
P.O. Box 1450 Alexandria, Virginia 22313-1450		phone No. 703-	306-0377					
Facsimile No. (703)305-3230		P.IOIO 110. 703						

Form PCT/IPEA/409 (cover sheet)(July 1998)



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International	application	No.

	PC1/0503/09862
I.	Basis of the report
	With regard to the elements of the international application:* the international application as originally filed. the description: pages 1-18 as originally filed pages NONE, filed with the demand pages NONE, filed with the letter of the claims:
	pages 19-23, as originally filed pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand pages NONE, filed with the letter of the drawings:
	pages 1-10, as originally filed pages NONE, filed with the demand pages NONE, filed with the letter of the sequence listing part of the description: pages NONE, as originally filed
2.	pages NONE, filed with the demand pages NONE, filed with the letter of With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is:
	the language of a translation furnished for the purposes of international search (under Rule23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in printed form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form.
	 The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listin has been furnished.
4.	The amendments have resulted in the cancellation of the description, pages NONE the claims, Nos. NONE the drawings, sheets/fig NONE
th	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to its report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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V. Reasoned statement under Rule 66.2(a)(ii) citations and explanations supporting such			inventive step of	r maustriai appi	icaomty;
1. STATEMENT					
Novelty (N)	Claims	2-7,9-13,and	15-19		YES
(C)		1,8,and 14			NO
Inventive Step (IS)		2-7,9-13,and	15-19		YES NO
	Claims	1,8,and 14	_ L. J. E. L. S.		110
Industrial Applicability (IA)	Claims	1-19			YES
	Claims	NONE			NO
2. CITATIONS AND EXPLANATIONS Claims 1, 8, and 14 lack novelty under PCT Arti	icle 33(2) a	s being antici	pated by Lin et al		
Regarding claim 1, Lin et al. teach the claimed a generating decision data is anticipated by the trel point closest to the received point, examiner intentwork responsive to decision data for identifying	lis demapp rprets "clo ng a sequer	er wherein the sest" to claim ace of anteced	e Z ₁ and Z ₀ are us ed "estimating", i ent trellis states is	sed to select the conote section 2.3; so anticipated by the	onstellation traceback ne Traceback
Memory function block, note section 2.2.2; and anticipated by Mux unit, note figure 12. The out					s states is
Regarding claim 8, see claim 1.				•	
Regarding claim 14; as applied to claim 1, Lin e output bits, note figure 8.	t al., furthe	er, teach Bran	ch Metric Units (BMU) having a p	olurality of
Claims 1-19 have industrial applicability under I made or used in the Telecommunications Industrial		e 33(4) becaus	se the trellis deco	der claimed there	in can be
NEW CITATIONS	·				
LIN et al. A Trellis Decoder For HDTV, Consumer 571-576	Electronics,	, IEEE Transac	tions on, Volume:		gust 1999, pp.
			•		
			•		
·					

Form PCT/IPEA/409 (Box V) (July 1998)





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/US03/09862

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims 3-7 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 3 and 4 are indefinite for the following reason(s):

Claim 3 is indefinite for being dependent upon claim 3, thereby rendering the scope of the claim unascertainable. Claim 4 is indefinite for being dependent upon claim 4, thereby rendering the scope of the claim unascertainable.

Claims 5-7 are dependent of claim 4, and are thereby objected to.